

# PROFESSIONAL DEMOLITION AMERICAS

Volume 10 • Issue 4  
January - March 2022

Your Gateway to North, Central and South America

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## Professional Demolition Americas Magazine

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Web Site:  
www.pdamericas.com

ISSN Registration:  
ISSN 1650-979X

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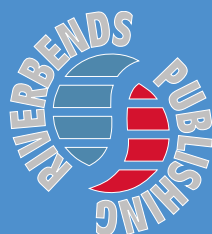
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**Cover Picture:**  
The New Aqua Cutter 750V

The magazine PDA, Professional Demolition Americas is published four times per year in North and South America. The annual airmail subscription rate is US\$ 45. All subscription correspondence should be directed to: The subscription department, Riverbends Publishing, LLC, P.O. Box 552, Nokesville, VA 20182, USA. Or sent by e-mail to info@pdamericas.com. PDA is mailed by second class postage. ©Copyright Riverbends Publishing, LLC, 2013-2022. Printed in the US.



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# That's More Like It

There was something in the air at February's National Demolition Association Convention in San Diego, something most of us haven't experienced in quite awhile—normalcy.

True, COVID-19 is surely not done with the world yet, and anyone who's suffered a loss over the past two years or is still dealing with "long-haul" symptoms deserves our full sympathy and support. Nor should anyone be criticized for preferring to wear a mask or skip crowded events.

But unlike January's World of Concrete, which was constrained by the then-pervasive Omicron virus variant, Demolition San Diego was pretty close to a "before times" industry event, one that, with a few exceptions, was not overshadowed by the specter of COVID (nor much of anything else, thanks to Southern California's trademark sunshine).

That alone would make anyone smile. And one of the biggest at Demolition San Diego belonged to NDA President Scott Homrich, who told PDa that attendance at the association's 50th Anniversary convention was roughly equal to that of 2020's Demolition Austin—for many, the last big event before the term "new normal" entered our collective vocabulary.

"The show is a perfect example of how things have rebounded," Homrich said. He added that while the pandemic and its aftermath posed plenty of challenges for both the industry and NDA itself, "by every metric, we're back to where we were."

And Demolition San Diego attendees were eager to make the most of that newly regained normalcy, with most taking advantage of the opportunity to watch dozens of machines in action at NDA's signature Live DEMOLition event, held at Southwestern College's Otay Mesa campus, just two blocks from the border crossing to Mexico. (see photos elsewhere in this issue)

Optimism was also abundant back at the San Diego Convention Center, where the NDA Expo was the hub for dozens of industry exhibitors (including PDa). While the opportunity for a return to more routine face-to-face interaction with prospective buyers is certainly welcome, manufacturers continue to struggle with the pandemic's lingering effects on supply chains. Many have shelved longstanding inventory strategies to scoop up component materials as they become available, preserving their ability to fill dealer orders as quickly as possible, rather than risk impatient buyers and, in some cases, idled production lines.

But any doubts about anyone's ability to face up to these challenges were dispelled by Demolition San Diego's Keynote Session Guest speaker Siri Lindley, a former world champion triathlete who shared her journey from last-place, happy-just-to-be-here participant to #1 in the world, only to confront a new opponent in the form of acute myeloid leukemia. (Spoiler alert: she won that race too, and has been cancer-free since 2020.)

All in all, Demolition San Diego was a perfect entrée back to a world mostly released from the pandemic's restrictions and complications.

Homrich said as much in his own Keynote Session speech by saying how good it was to see—really see—everybody

there.

"And it was," he said later. "I think everybody is really happy to be back together again."

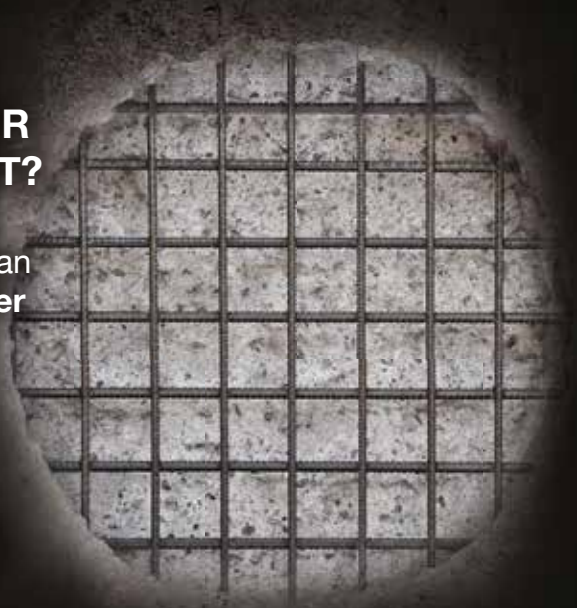
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**PdA Magazine is pleased to present regular updates from the US National Demolition Association. This column comes from NDA Executive Director Jeff Lambert.**

## NDA's Strong Path Forward

With a highly successful Demolition San Diego in the books, I'd like to take a moment to recognize the progress we've made on the two-year strategic plan NDA's Board of Directors laid out in January 2021—in the middle of the pandemic—and celebrate all we have been able to accomplish together over the past year.

The rest of this year is an exciting for many reasons, but I am especially looking forward to our continued progress on the education front. We have recently begun work on a demolition professional certification that will serve as portable proof of ability. Last spring, members met and finalized their charter and formed the Certification Board of the NDA (CBN). As you may know, implementation of certification can reduce fatalities by 50%. For years, our members have been requesting a way to validate potential new hires and existing crew. This certification will complement our Foundations of Demolition Management training series. Completion of the course material will essentially be a study guide for the test. Our first certification testing is slated for 2023.

We have sent 35 letters to the administration, Congress, and federal agencies to advocate on behalf of the industry to ensure demolition industry companies can continue to operate and secure the funding necessary to weather the pandemic. Our letters have included opposition to the Occupational Safety and Health Administration (OSHA) emergency temporary standard, opposition to tax increases, and support for streamlined permitting for infrastructure.

In July of last year, we signed a formal alliance with OSHA, which was another step in our effort to collaborate with other safety professionals. We are now in the enviable position of helping OSHA understand our business, and members have access to safety compliance officers to act as third-party validation in setting up safety and training programs. The second part of our alliance, as part of the agreement, is that NDA will develop best practices documents to provide to OSHA and make available to members. We have already provided a Best Practices in Demolition Communications Guidance document to OSHA for review.

Our Foundation of Demolition Management Training Series continues to be in demand. We now have 54 certificate holders who have completed the training series and another 200 who have taken two or more of the four courses. Last year, we averaged between 25-30 participants for our virtual courses. In April, we successfully held the Foundations of Demolition Job Cost Tracking Course and Foundations of Demolition Project Management Course. We'll be offering Foundations of Demolition Estimating virtually in June and Foundations of Demolition Risk Management in the fall.

Additionally, we offered the Superintendent Boot Camp and Equipment Maintenance Courses prior to Demolition San Diego. We had over 40 attendees for this year. Also, the Education Committee finalized the "Hiring a Qualified Demolition Contractor" document, which is available for all members at the NDA website.

As part of our strategic plan, we also developed and launched a dynamic membership directory this year that is now available for download. The directory allows members to download primary contacts for member organizations and is an excellent resource for members seeking products and services from trusted partners. The directory is updated nightly, and users must be logged in to access it. Companies should make the most of their listing by adding the company logo, updating services provided, and ensuring company contacts are current.

We ask all members to show their support for the industry and download our proud member logo to display on your website to show your NDA pride! If you are not a member, you should be! Contact me at [jlambert@demolitionassociation.com](mailto:jlambert@demolitionassociation.com) to learn more, and join!

**Jeff Lambert**  
Executive Director

[www.demolitionassociation.org](http://www.demolitionassociation.org)



## Makinex Names New N.A. Marketing Coordinator

Coco La Salle has joined the US team of Makinex as the company's newest Marketing Coordinator. La Salle brings nine years of expertise in marketing, management, and communications to Makinex, which continues to raise its profile among North America's construction and demolition market. She is well-versed in brand growth and exposure, including market positioning, lead generation, content marketing, social media marketing, media planning, trade show execution, and

overall brand management.

La Salle earned a Bachelor's degree from the University of Hawai'i, and a Master's degree in business administration from the University of Florida. During her graduate studies, La Salle combined her years of education with successful experience building start-up businesses and doing freelance marketing to develop a senior research project that led to her first small business in the fitness industry.

[www.makinex.com](http://www.makinex.com)

## Atlas Copco Digitalizes Its Customer Interaction

Recognizing the changes in business interactions, Atlas Copco Power Technique has been engaging with its audience in a more targeted way, both online and offline communications. Moving away from a "one-size-fits-all" approach, Power Technique will reach out to its customers, who are experts in their field, in a more personalized way, offering relevant content and advice to their specific needs. This shift in focus will allow the business area to invest more in local and specialized touchpoints - where a personal interaction with the customer ensures more relevant content and, ultimately, a more sustainable customer relationship.

Following this new approach, the business area will not participate in the 2022 Bauma trade show, allowing them to support the Atlas Copco Power Technique's determination to prioritize close personal relationships and its digital presence where appropriate, and focus more on these tailored customer journeys.

"Our decision to not participate in Bauma does not mean we will cease to organize physical events," explains Andrew Walker, President of Atlas Copco Power Technique Business Area. Instead, he adds, "we will become more focused on our customer experience with online and offline touchpoints.

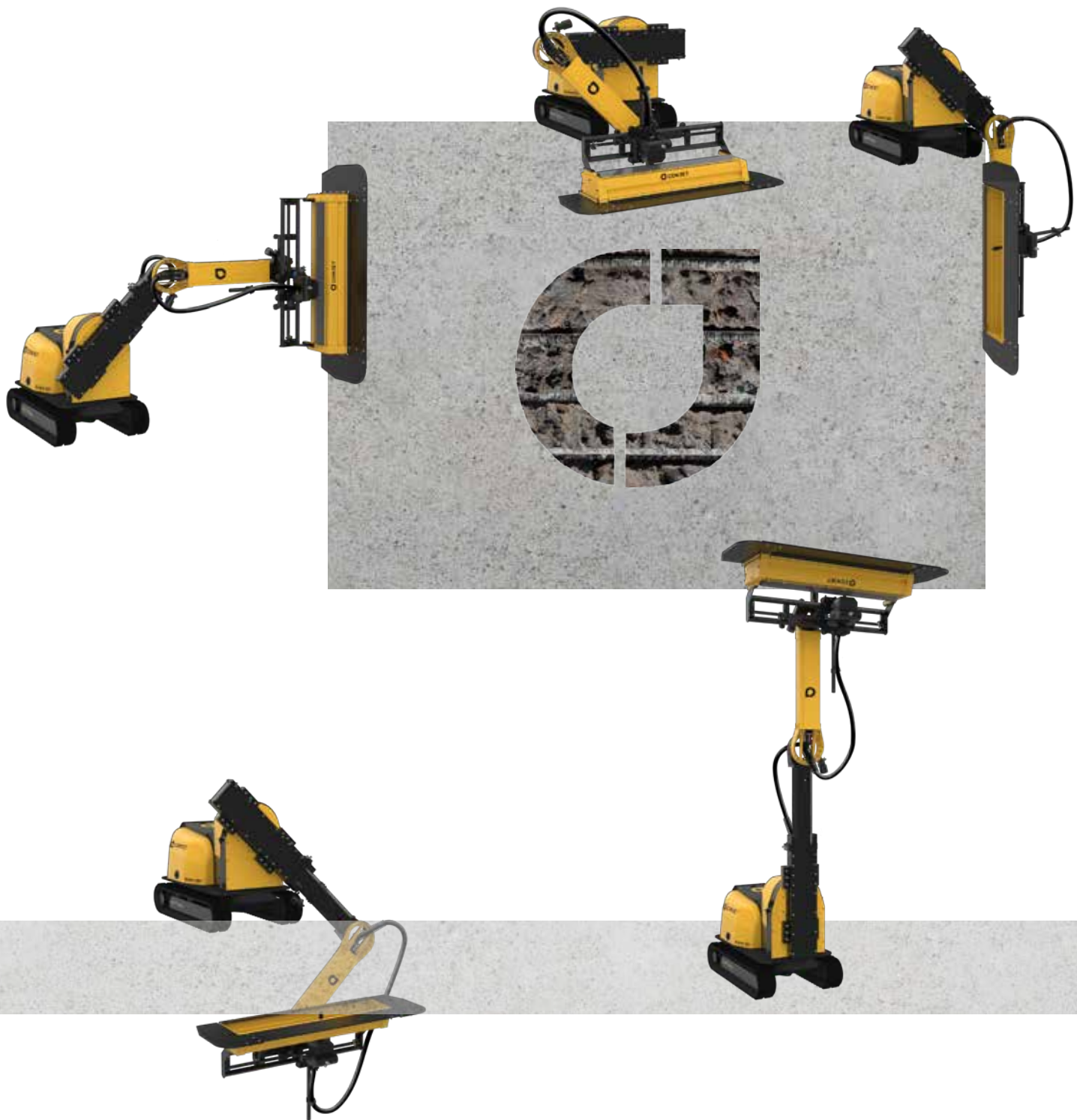


A balanced mix of digital and physical events will ensure that we offer the best possible experience to every customer."

Local tradeshows still hold added value for Atlas Copco, as they offer the opportunity for local Atlas Copco representatives to engage with customers on a more personal level. Living up to its promise of remaining a global company with a local presence, Atlas Copco will always be close to the customer, both offline and online.

"We want to provide the best experience and the best value to our customers while increasing our brand recognition in the products and solutions that we offer," Walker says. "We keep monitoring the way customers choose to interact with us, and we'll continuously review our marketing activities to match these preferences."

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## Event Calendar

### ISRI 2022

March 21-24, 2022  
Mandalay Bay, Las Vegas,  
USA

[www.isri2022.com](http://www.isri2022.com)

### Hillhead 2022

June 21-23, 2022  
Hillhead Quarry  
United Kingdom

[www.hillhead.com](http://www.hillhead.com)

### Concrete Show, Brazil

August 9-11, 2022  
Sao Paulo Exhibition Center,  
Sao Paulo, Brazil

[www.concreteshow.com.br](http://www.concreteshow.com.br)

### BAUMA 2022

October 24-30, 2022  
Munich Exhibition Center,  
Munich, Germany

[www.bauma.de](http://www.bauma.de)

### DEMCON 2022

November 24-25, 2022  
InfraCity, Bredden,  
Stockholm, Sweden

[www.demcon.se](http://www.demcon.se)

### BAUMA China 2022

November 22-25, 2022  
Shanghai Exhibition Center,  
Shanghai, China

[www.bauma-china.com](http://www.bauma-china.com)

### World of Concrete 2023

January 17-19, 2022  
Las Vegas Convention Center,  
Las Vegas, Nevada

[www.worldofconcrete.com](http://www.worldofconcrete.com)

### CONEXPO-CON/AGG

March 14-18, 2023  
Las Vegas Exhibition Center  
Las Vegas, USA

[www.conexpoconagg.com](http://www.conexpoconagg.com)

### Samoter 2023

March, 2023  
Verona Exhibition Center,  
Verona, Italy

[www.samoter.it](http://www.samoter.it)

### ARA Show

March 12-15, 2023  
Orlando Convention Center  
Orlando, FL, USA

[www.arashow.org](http://www.arashow.org)

### Intermat 2024

April, 2024  
Villepinte, Paris Nord,  
France

[www.intermat.fr](http://www.intermat.fr)



### MWS Equipment Names New European Partner

Washing solutions specialist MWS Equipment continues its global expansion with the appointment of Lheureux as the official distributor of MWS washing equipment in France.

"Lheureux have been operating for more than 50 years and are an industry leader specializing in equipment for quarries, aggregate recycling, and the waste recycling industry." Representing several world-renowned brands, the company is dedicated to supplying high-quality equipment and parts.

Focused on delivering excellent after-sales service, Lheureux is equipped with mobile workshops throughout France.

"We welcome Lheureux to our international distributor network and look forward to a successful collaboration," says Ben Frettsome, MWS Equipment's Product Line Director. "We are confident that our partnership with Lheureux will provide our customers with outstanding quality and exceptional customer service, achieving strong supply chains by consistently providing them with application solutions and by offering an expanded and multi-purpose product's range with local stock for quicker deliveries."

Florent Rey, Operations Director of Lheureux, calls MWS Equipment "an innovative, forward-thinking company that offers customers solutions that improve the productivity of wet processing plants and have the technical application expertise in the washing industry. MWS Equipment is among the world's largest premium manufacturers of washing equipment and is synonymous with the quality of products and business values that we want to be associated with." "Pol Donnelly, Technical Sales Manager, MWS Equipment, calls the partnership with Lheureux "an exciting growth opportunity and enables us to extend our presence in Europe."

MWS Equipment and Lheureux will work together with their customers to select the products most suited to their business requirements. The support continues once the product is onsite and incorporates the full product lifecycle service such as after sales technical service support, spare parts, and product warranty.

[www.mccloskeyinternational.com](http://www.mccloskeyinternational.com)

### Atlas Copco Power and Flow Signs Agreement With Mexican Supplier

Mexico's Proveedora de Bombas, Motores y Compresores has agreed to be the country's exclusive Mexican supplier of Atlas Copco WEDA submersible pumps. Thanks to this contract, the company will provide its Mexican customers with high-quality submersible pumps to ensure optimal performance and efficiency.

Atlas Copco WEDA submersible pumps are designed for multiple dewatering applications across many industries. These lightweight electrical submersible pumps feature adjustable wear-resistant rubber diffusers, and hardened high-chrome impellers ensure durability in tough environments. The WEDA seal system is designed to provide the optimum maintenance solution and can be easily fitted at the jobsite, saving time and energy.

With more than 35 years of experience providing pumping solutions to the industrial, mining, and water treatment sectors across Mexico, Proveedora de Bombas, Motores y Compresores is dedicated to offering the ideal equipment of its well-known international portfolio for the specific needs of its customers. Moreover, the company born in Monterrey has its own Service Center authorized by the brands on its range. As part of this agreement, Atlas Copco Power and Flow will provide continuous training to the supplier's personnel.

[www.atlascopcogroup.com](http://www.atlascopcogroup.com)



### Mecalac Adds Seven Dealers to Growing North American Network

Compact construction equipment manufacturer Mecalac welcomed seven new North American dealers to offer customers increased equipment access and support.

"Mecalac is fully committed to expanding its presence in the market by continuing to add dealers who share our philosophy and give customers practical resources to help improve productivity," says Peter Bigwood, general manager for Mecalac North America. "Expansion in these regions also allows us to grow awareness of Mecalac's innovative designs and better serve our existing customer base."

Dealers that partner with Mecalac believe in the game-changing productivity Mecalac machines offer and share the vision of reshaping the way contractors work to

increase safety and efficiency on every jobsite. Additionally, the company seeks to partner with dealers who share a passion for finding new solutions to common jobsite challenges, and by going the extra mile to service their customers.

Here are the new dealers that have joined the Mecalac network throughout 2021:

- **McClung-Logan Equipment Company:** Fredericksburg, Va
- **ESSCO Truck & Equipment:** Staten Island, NY
- **Kubota of Chattanooga:** Chattanooga, Tenn.
- **Q Dig-It:** Rathdrum, Idaho
- **Wilson Equipment:** Lexington, Ky.
- **Global Machinery:** Boise, Idaho
- **Gear Equipment:** Surrey, B.C.

Mecalac continues to support dealers with the tools they need to provide outstanding service to customers who are searching for efficient solutions. Many of the dealers feature Mecalac's complete line of advanced machines — the MCR Series of crawler skid excavators, the MWR Series of wheeled excavators, AS Series swing loaders, and dedicated rail-road excavators.

[www.mecalac.com](http://www.mecalac.com)

### Atlas Copco Acquires German Industrial Pump Manufacturer

Atlas Copco has agreed to acquire Pumpenfabrik Wangen GmbH, a German manufacturer of progressive cavity pumps used for transferring fluids mainly in the biogas and wastewater sectors. The company also manufactures twin-screw pumps used in sectors like food and beverage and cosmetics.

"Industrial pumps is a segment that we have identified as a strategic fit for Atlas Copco, and Wangen Pumpen has leading differentiated technology with a strong aftermarket business," says Andrew Walker, Business Area President Power Technique. "Wangen Pumpen is a strong brand and is known for quality in demanding industrial applications. This acquisition will create a solid foundation for further growth in new industrial pump segments."

Mikael Andersson, President Atlas Copco Power and Flow division adds that the acquisition "establishes a position in the industrial pumps segment, especially in the progressive cavity technology space—one of the technologies in positive displacement that we have identified as a "core technology. Wangen Pumpen's technology, market presence, and its company culture make it a good fit within Atlas Copco Group."

The acquisition is expected to be completed during the second quarter of 2022 and is subject to regulatory approvals. Wangen Pumpen will become part of the Power and Flow division within Atlas Copco's Power Technique Business Area.

[www.atlascopco.com](http://www.atlascopco.com)





## OilQuick Launches US Manufacturing Arm

OilQuick USA, a company in the Exodus Global Group, and OilQuick AB have formed a joint venture to manufacture OilQuick quick fasteners in the US.

The new company OilQuick Americas (OQ Americas), will serve markets in both North and South America. The joint venture is currently developing a new administrative and manufacturing facility at OilQuick USA's existing Superior, Wisc., location.

Kevin Boreen, CEO of Exodus Global, says the joint venture increases OilQuick's manufacturing capacity significantly to meet an exponential growth in demand.

"The market for automatic quick couplings in North America is accelerating every day," Boreen says. "This investment gives OilQuick Americas the unique ability to serve our customers with local manufacturing in North America."

Boreen adds that his six-year professional relationship with OilQuick AB's leadership

made the joint venture an easy decision.

"Their attitude to business, commitment to quality and respect that they show their employees and could fit perfectly with Exodus Global," he says. "With 40,000 switching systems installed worldwide, no competitor comes and is close to the reliability of OilQuick's products."

Henrik Sonerud, CEO of OilQuick AB, calls Exodus Global "a perfect match" for what he considers "a necessary step" for the company's global expansion.

Sonerud says the move will "free up capacity for our growth in Europe and Asia, but more importantly improve to support our customers in North America by shortening delivery times and increasing flexibility."

OilQuick Americas began operations in January, and expects to reach full production of its automatic attachment fastening system later in 2022.

[www.oilquick.com](http://www.oilquick.com)





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## ASV Presents Top Dealers for 2021



ASV has recognized Briggs Equipment, Inc., as its 2021 Multi-Location Dealer of the Year, and FMI Equipment as the 2021 Single-Location Dealer of the Year.

"Briggs Equipment and FMI Equipment really excel at representing ASV and partnering with their customers," says Jeff Pate, director of sales for the ASV brand. "Both dealers have gone above and beyond with their level of commitment, customer service and passion to share the value of ASV machines with their customers. We're pleased to show our appreciation for their partnership with this year's awards."

Briggs Equipment is ASV's 2021 multi-location dealer of the year. The dealer has shown a strong belief in the quality of ASV's products and a commitment to

helping their customers understand the value of the ASV brand. In addition to showcasing consistently high sales volumes in their more than five years representing the brand, their team displays a clear understanding of the benefits of ASV equipment and proactively shares these messages with customers and prospects.

FMI Equipment, the winner of single-location dealer of the year, has been a loyal advocate of the ASV brand for 20 years and has achieved remarkable market share and sales volumes. They also stand out because of their knowledge of the features and benefits of ASV products, as well as knowing how to show the value of ASV equipment against other machines.

[www.asvi.com](https://www.asvi.com)



# Aquajet Rotolance Lineup Excels at Surface Preparation for Most Concrete Surface Profiles



Rotolance attachments pair with the Aqua Cutter 710V and Ergo System to provide increased productivity for surface preparation applications while also maximizing worker safety. The Ergo Rotolance is pictured here.

Aquajet's series of Rotolance attachments effectively clean, remove and roughen concrete, leaving a better bonding surface that meets international guidelines for the majority of concrete surface profiles (CSP).

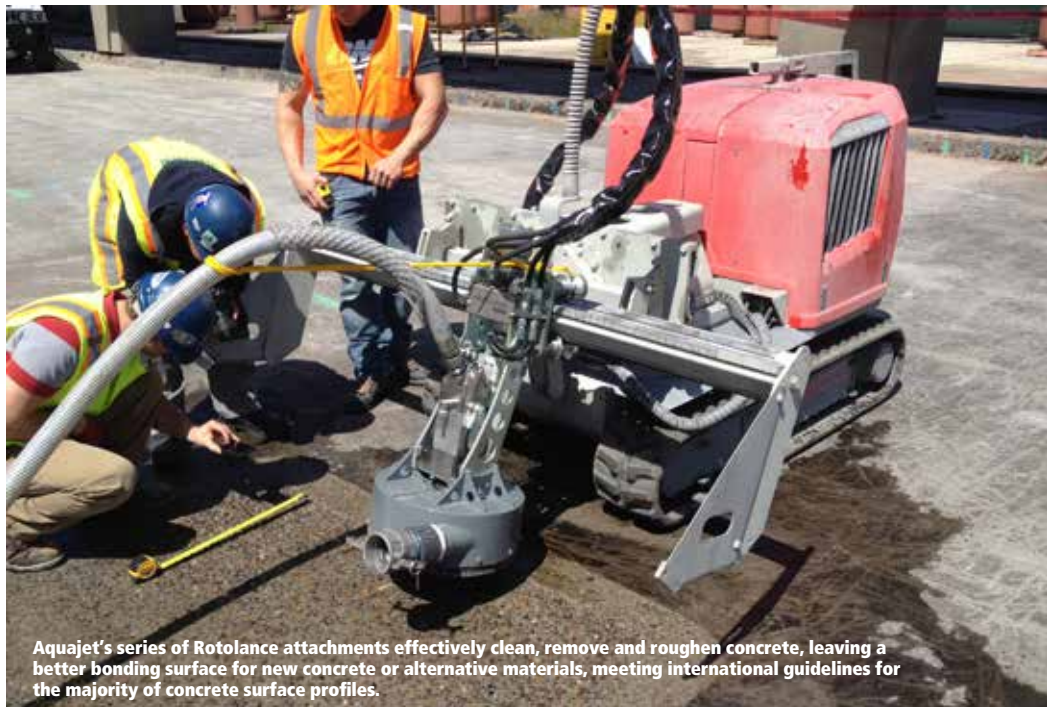
Rotolance attachments pair with the company's Aqua Cutter 410 and 710 series robots, the new Aqua Cutter 750V, Ergo System, and Aqua Spine, providing increased productivity and enhanced worker safety for surface preparation applications over manual methods such as sandblasting, hand lancing, or pneumatic breaking.

## ICRI identifies hydrodemolition

Subpar surface preparation can have a negative impact on the integrity of the structure and lead to premature failure, increasing repair intervals and overall costs. International Concrete Research Institute (ICRI) technical guideline 310.2R-2013, which pertains to selecting and specifying concrete surface preparation, identifies hydrodemolition as one of few methods capable of achieving CSP 3 through 10. This versatility allows hydrodemolition contractors to efficiently achieve CPS 3, suitable for some thin film and



The International Concrete Research Institute identifies Hydrodemolition, also known as water blasting or water jetting, as one of few methods capable of achieving concrete surface profiles 3 through 10.



Aquajet's series of Rotolance attachments effectively clean, remove and roughen concrete, leaving a better bonding surface for new concrete or alternative materials, meeting international guidelines for the majority of concrete surface profiles.

high build film coatings, all the way up to CPS 10, which is necessary for concrete overlays and repair materials greater than .25 in (6mm).

Aquajet's Rotolance attachments use a rotating spray bar with multiple nozzles. With hydraulic operation and rotation speeds up to 1000 RPM, the spray bar easily adjusts to meet surface preparation requirements for a number of profiles. Combined with the adjustable traverse speed of Aquajet's hydrodemolition robots, Rotolance attachments provide precise results in horizontal, vertical and overhead applications. Depending on pump flow, pressure and desired profile, Rotolance attachments can achieve production rates in excess of 500 ft<sup>2</sup> (46.5 m<sup>2</sup>) per hour.

Contractors with a lightweight Ergo System can choose from two Rotolance attachments — the Rotolance 130 and Rotolance 130S — for maintenance and removal applications at bridges, harbors, water treatment facilities, reservoirs and tanks. The attachments offer new versatility

for the Ergo System and are compatible with the Ergo Climber and Ergo Spine to provide access in confined or hard-to-reach places. The 130S is also equipped with a suspension system, allowing it to follow uneven or curved surfaces such as ship hulls and storage tanks.

The Rotolance 1000 and Rotolance 2500 pair with Aquajet's Aqua Cutter robots and cover a surface diameter as wide as 14 in (360 mm). A vacuum port allows contractors to connect a vacuum system for water recovery, ensuring safe, environmentally friendly operation. Both Rotolance attachments can replace the regular cutting heads on the Aqua Spine, allowing operators to remove concrete that would be difficult or impossible to reach with a robot alone.

The Rotolance 1000 is rated for a maximum pressure of 14,500 psi (1,000 bar) while the Rotolance 2500 is rated for 36,250 psi (2,500 bar).

[www.aquajet.se](http://www.aquajet.se)



# Future Technology

## Canadian Developer and Property Manager Sees Long-Term Benefit in Hydrodemolition

Images courtesy of Drewlo Holdings

With more than 60 years in the property management industry, Drewlo Holdings has a knack for providing the high-quality accommodations tenants want. In southwestern Ontario, the family-owned company is synonymous with upscale apartment living, boasting more than 9,600 units throughout the area.

### Developing a Renovation Plan

Investing in proactive maintenance is an important part of Drewlo's commitment to quality. Along with ensuring all facilities meet current safety guidelines, the approach allows the company to plan ahead when larger repair projects are needed to minimize the impact on tenants and staff. So with a number of its parking structures needing repair, Drewlo tasked the maintenance and special projects department with developing a renovation plan. The team identified about 80 structures, the majority of which were one- or two-level above-ground parkades.

The list also included about 15 underground garages. Buildup of chloride ions from road salt and decades of wear and tear meant some of the older structures required significant repairs—in some cases removal of as much as 60% of the existing concrete.

"There was a lot of variability from structure to structure," says Robert Reynolds, Drewlo's special projects manager. "Each site presented its own challenges as well as the overall logistical hurdles that come with a project of this magnitude."

First and foremost, Reynolds and his team had to contend with the hefty price tag that comes with such a large project. With an estimated average removal of 15,000 ft<sup>2</sup> (1,393.5 m<sup>2</sup>) on the smaller above-ground structures and 50,000 ft<sup>2</sup> (4,645.2 m<sup>2</sup>) for the larger underground garages, minimizing costs would be critical. Tackling the project the traditional way — a large workforce with handheld equipment — went against the company's policy of innovative, highly specialized crews. And with the project expected to take 15 years to complete, the approach would prove very expensive. Jackhammers were also problematic, as crews would have to replace rebar at a cost of tens of thousands of dollars per structure.

After discussing their situation with Aquajet team members at a trade show, Drewlo decided hydrodemolition provided an innovative solution that would minimize overhead costs and provide a safer, less physical alternative for employees. The impact-free process would save Drewlo an estimated \$40,000 per structure without the



Hydrodemolition cleans and descales rebar without damaging it or causing microfractures, saving Drewlo an estimated \$40,000 per structure.



Drewlo purchased an Aqua Cutter 710V with Rotolance 1000 attachment to provide the necessary productivity to keep the renovation project on schedule and within budget.

risk of creating microfractures in the remaining concrete. It would also greatly reduce crew requirements, allowing Drewlo to work fast while keeping its team small.

These considerations led Drewlo to invest in an Aquajet Aqua Cutter 710V with Rotolance 1000 attachment and Power Pack 700. Using the Rotolance 1000 attachment, Drewlo crews can maximize removal in less damaged areas by only taking off a shallow layer of concrete. The tool covers a surface diameter as wide as 14 in (360 mm) and can provide production rates in excess of 1,500 ft<sup>2</sup> (139.4 m<sup>2</sup>) per hour. For structures with heavily damaged concrete, the team can remove up to a 3.5 in (8.9 cm) deep.

### Success in the Short-Term

Working around tenants presented the final challenge to Drewlo's team. The structures had to remain open for



# with Aquajet



Hydrodemolition saves Drewlo about 40% of the time compared to using a scarifier or other mechanical means, allowing the team to move on to subsequent tasks that much faster.

parking, while noise restrictions limited work hours to between 8 am and 5 pm, when most tenants were out of the building. Vibrations also needed to be limited to maintain structural integrity since some structures were connected to the apartment towers and all were multi-level. Here again, hydrodemolition presented an ideal solution that exceeded the expectations of both crews and residents in terms of parking disruptions.

"Hydrodemolition isn't what a lot of tenants were picturing when we informed them of renovations," Reynolds says. "There was the expected concern for noise, dust and restricted access. However, when we began removal with the Aquajet equipment, tenants were impressed by how quiet it was."

Marcel Huard, construction supervisor and site foreman, was Drewlo's first Aquajet certified operator. He learned on-site as part of the commissioning of the

new equipment. Huard is an industry veteran with 20 years of experience in concrete restoration. A second operator was recently added to the team—Fabio Baldinelli is a 19-year-old construction apprentice just starting his career.

"The hardest part is you have to have a feel for the concrete itself," Reynolds says. "The robot does what it needs to within the set parameters, but it takes some skill to determine what those are. Yet both Marcel and Fabio were able to grasp the functions quickly. With the breadth of this project, we're lucky to have an experienced manager and young professional involved to ensure quality all the way to the end."

Three years into the project, Drewlo's team has streamlined the renovation process. The crew stations the Aquajet Power Pack 700 high-pressure pump near a fire hydrant as close to the structure entrance as possible.

To keep parking open for tenants, Drewlo sets up the renovation in four stages per structure. The crew erects netting and tarps around the active work area to minimize debris movement into active parts of the structure, while wastewater is collected using a sump system that allows it to settle before being passed through four fine filters and eventually released in the storm drain. Depending on the structure, the concrete removal phase has taken no more than 45 days. Reynolds estimates hydrodemolition saves about 60% of the time compared to using a scarifier or other mechanical means, allowing the team to move on to subsequent tasks, such as pouring new concrete, that much faster. As the renovation project continues, Drewlo hopes to train more operators and increase its fleet of Aquajet equipment.

"Smart investments lead to long-term success," says Allan Drewlo, president of Drewlo Holdings. "Hiring the best talent and committing resources to professional development and the cutting-edge tools that will take them even further ensures top-notch service for our tenants for another 60 years."



# RECOVER

## Optimism and Omicron underscore slimmed-down World of Concrete

Rain in Las Vegas isn't totally unusual. Though one of the driest cities in the U.S., it still receives just over 4 inches of precipitation each year. But the fact that some of those precious drops fell on the morning of World of Concrete's opening day might have been a harbinger of a show that would be different from normal, yet appropriate to the different times we're living in.



### Not the best, but not so disappointing either

Following a scaled back, but nevertheless upbeat "mini-WOC" just six months earlier, the weeks leading up to the 2022's event's restored wintertime schedule were fraught with uncertainty, with the rapid worldwide spread of the COVID-19 Omicron variant. Though generally less deadly than its pandemic predecessors, Omicron nevertheless took a toll on WOC's manufacturer participation, particularly those from overseas.

"We were set to have seven people come over from Sweden," said Conjet's national account manager Rick Larson. "One by one, they tested positive, shrinking our nine-person booth team to two."

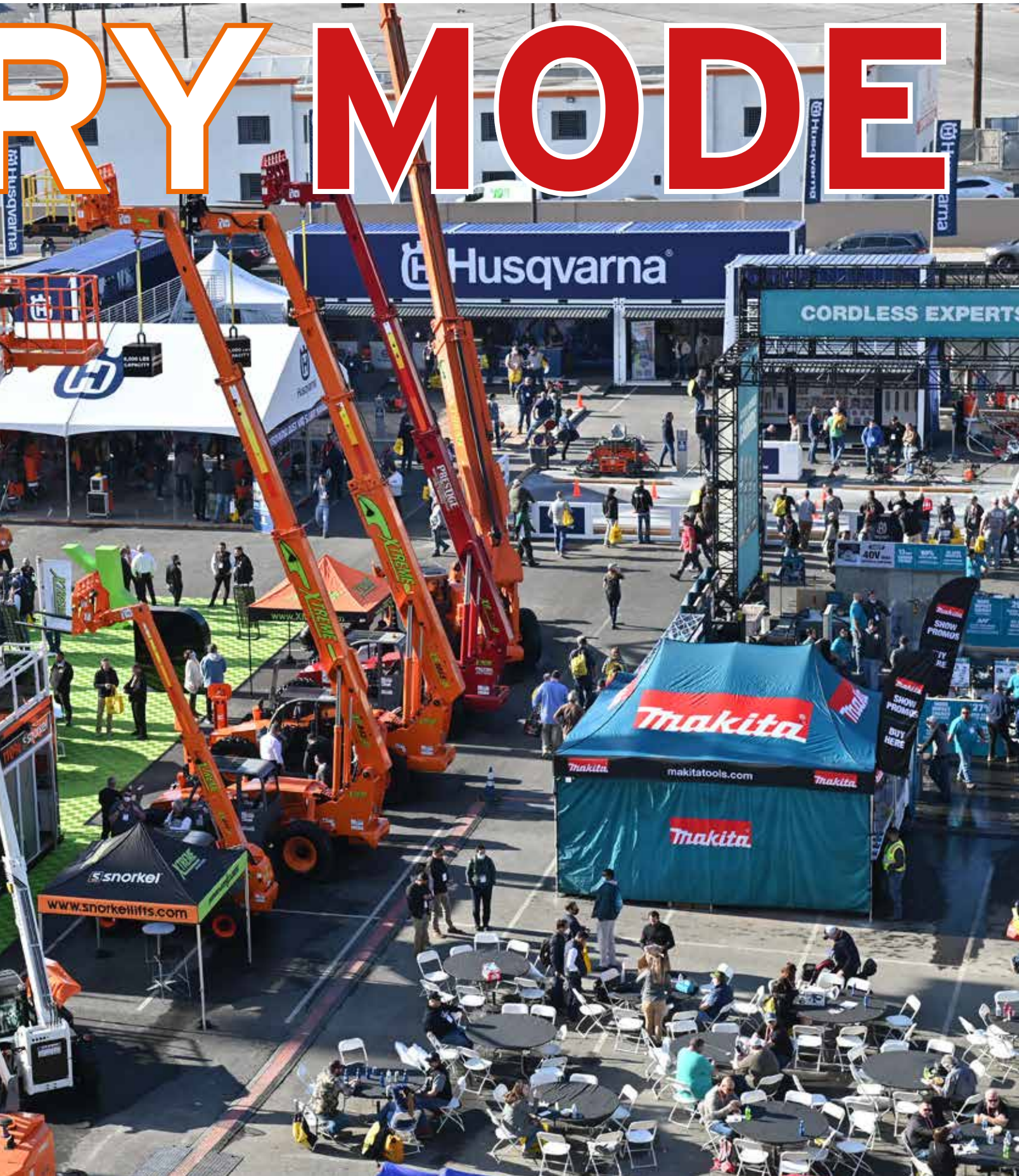
Omicron seemed poised to shrink attendance as well, though busy work schedules in the rather robust U.S. construction market may have played as big a role for some contractors' decisions to stay home as travel concerns or the prospect of another down year.

So when the last visitors filed out of the Las Vegas





# RY MODE







Convention Center on the final afternoon, it turned out that WOC 2022 was...well, not the best, but not so disappointing either. Organizers report that the show attracted nearly 37,000 attendees and more than 1,100 equipment, tool, and materials vendors—a far cry from “before times” numbers, to be sure, but hardly a ghost town.

What’s more, there were plenty of new products to see and try out. As usual, one of the biggest outdoor exhibits belonged to Hilti, which showed off its new Nuron 22V battery platform for handheld tools. Visitors didn’t have to wait to try out a Nuron model for themselves, as the company’s rollout spans 70 tools—circular saws, metal-cutting tools, breakers, drivers, impact wrenches, and others—with more on the way.

Along with simplifying a contractor’s jobsite battery needs, Hilti claims Nuron tools provides performance usually limited to the realm of high-voltage of gas-powered models.



“It opens the door to a lot of new tool innovations, and enhancements to existing models, such as adding our [Automatic Torque Control] technology to smaller drills,” said Hilti product manager Artie Reams. “Owners can also collect data from the batteries as they charge, and use that information to help their people be more productive.”

The prospect of a smaller WOC didn’t keep hydro-demolition specialist Aquajet from introducing its new Aqua Cutter 750, which features a new Infinity oscillation that moves the water jet in a figure-8, or infinity pattern. Aquajet business development manager Keith Armishaw explained that the varying speeds of conventional sine-wave lance patterns frequently produce inconsistent results and “shadows” beneath rebar. Along with tracking up to two times faster, the infinity pattern movement removes more material in a single pass, eliminating the need to follow-up with hand lancing.

“The machine is remarkably simple, yet so efficient,” Armishaw says of the Aqua Cutter 750. Aquajet has also incorporated controls that automatically calculate optimal settings for speed, start/stop, and other functions to minimize the risk of operator error—another source of inconsistent results.

“If you have five diff operators, you can get five different results,” Armishaw adds. “This helps even out quality, productivity, and consistency.”

Another showfloor debut was Kubota’s new U10-5 1t mini-excavator. Product manager Patrick Baker explained that the new model is an updated version of its rental market-focused K008-5, with a 10.1-hp (7.5kW) engine that produces nearly 2,400 lbf (1,088 kg) of breakout force. Able to travel up to 2.5 mph (4 kph), “it gets across the site quick,” Baker says.

As for its “minimal zero-tail-swing” classification, Baker explained that a mere .6-in (15mm) overhang prevents the machine from being a zero-tail-swing unit. “It’s still able to work in even the tightest spaces,” he adds. Track width can be adjusted from 30 to 39 in (762 to 990 mm).

### Notes from all over

WOC always showcases concrete grinding and polishing equipment, and this year, Superabrasive featured a



new of its propane model L30GE that includes a 24-hp (17.9kW) Kohler propane engine that the company says provides more uptime better fuel efficiency, and higher performance. Two new propane-powered power trowel models for larger-scale jobs were also on display—the 61-in (1,549-mm) LP30E that can fit through standard doors, and the 80-in (2,032mm) LP36GE Elite model, which comes with 8x13 in (203x330 mm) head and the 24hp (17.9kW) Kohler engine.



SASE Company showed its new 25-in (635-mm) 6KP propane grinder, which is now in full production according to technical director Cliff Rawlings. At 700 lb (317.5 kg), the machine provides up to 535 lb (242.6 kg) of down pressure.

“The drum is hub-driven, so the bearing system will last from 1,800 to 2,500 hours,” Rawlings added. “The carburetor and regulator are mounted together, making it almost fuel-injected.” What’s more, the machine’s emissions are under 20 ppm—well below the US EPA minimum of 50.

There was also a lot to see at Diamond Vantage’s booth, with the main attraction being the company’s Zenesis V series of blades. A tweak to the blades’ diamond pattern promises both longer life and faster cutting, as well as the opportunity to develop 4- to 24-in (101-609-mm) blades for grinders. Also on display was a new small cutter developed in collaboration with Gorilla Concrete Tools of Ohio.

“We offered some feedback from our customers that they incorporated to add durability and make maintenance easier,” said sales specialist Jason Mohr said of the machine, which has a 2-in (51-mm) cut depth. “For example, the bearings are simple to change, and no





special types are needed. You just go to the hardware store and pick up what you need.”

Other WOC highlights included Makita's new XGT 80V cutter with 14 in (355.6-mm) blade, part of a new line of 40V/80V cordless equipment introduced last year. US Saws displayed its hydraulic walk-behind saw with 20-in (508mm) blade for compact applications, while Blastpro displayed a prototype of its BPS-11 portable scarifier that can provide .125-in (3.175mm) cut depth per pass. That model is undergoing design revisions to accommodate a new motor, but should be available later this year.



And there was some business news, with the Reno, Nevada-based MB Crusher America announcing the opening of a new branch in Kenersville, N.C. CEO Regan Whitfield said that along with providing sales, equipment support, and a product demonstration area, the new location is also closer to East Coast ports where MB Crusher products arrive from Italy.

Whitfield, who has led MB Crusher America since January of last year, noted that the US market is still evolving when it comes to attention to concrete recycling and process. “We see that changing, and by introducing



equipment that makes that work easier and more efficient, we hope to change the mentality of recycling as well,” Whitfield said.

In some ways, the protracted pandemic heightened awareness of the construction industry's already pervasive problems with labor availability, enhancing the importance of equipment that helps maximize productivity and ease of use. Milwaukee Tools' Nick Hanns noted that telematics technology like his company's One-Key system can help with more than inventory management.

“A user can dial in certain settings, activate kickback protection, and increase repeatability of performance, regardless of who's using the tool,” he says. “That helps workers of all skill levels do things more efficiently and be more productive.”

B&W Equipment general manager Darrell Miller cautioned that such features can go only so far for some types of equipment. Using “a fleet approach” risks having





workers treat the tools with less care than they should.

"Sometimes it's better to have a dedicated user," he explains.

### The verdict

While WOC 2022 may have lacked the size and some of the glitz of its pre-pandemic predecessors, discouraging words about the show were rather scarce. Many exhibitors noted that as in years when an impending Conexpo curbs WOC numbers, this year's show attracted contractors committed to investing in their businesses.

"Even though we're in a different location in Silver Lot, this was busiest first day of the show ever," Whitfield said. Added Alex Berg, CEO of Cratos Equipment, the new US distributor for Danish micro-equipment manufacturer Twinca, "We had low expectations but the show has been pretty good, and the equipment was well-received."

The availability of indoor space also worked out well for smaller exhibitors. "We had more traffic today than in all the years we were outside," observed Tim Kavka-Coogan, general manager for Clear Blast, a West Chester, Pa.-based maker of wet abrasive blasting tools.

And for those exhibitors who braved Omicron, potential travel shutdowns, and any number of other hurdles to get to Las Vegas, the effort was well worth it.

"We didn't know what to expect," said Thomas Baier of Germany's Otto Bailer Tools, "but we were very pleased. It was a good, quality experience."

[www.worldofconcrete.com](http://www.worldofconcrete.com)





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# LOAD



**It's one thing to muddle through the day-to-day challenges of a pandemic. But muddling through job after job using less than the best equipment won't earn a contractor much profit, or future job opportunities.**

So, with the return of trade shows on the horizon, why not start making plans now to give your equipment fleet a fresh look. And compact loaders and skid steers are a great place to start. Packed with both power and features to boost productivity, these mighty-mites are sure to become go-to machines for all kinds of projects in all kinds of locations. You'll be working safe—and working smart!

## **Komatsu's new all-rounder with the latest EU Stage V Engine**

The all-new Komatsu WA70M-8 compact wheel loader delivers first-class operator comfort, optimum visibility, outstanding safety levels, an ergonomic interface, effortless operation, and a bold contemporary styling for a strong distinctive visual presence. Combined with KOMTRAX, which allows owners to monitor all machine functions remotely, the WA70M-8 also features a hydraulic quick-coupler, Easy Fork kinematic and a wide range of attachments.

The WA70M-8 is equipped with a powerful Komatsu low-emission engine and Diesel Particle Filter and complies with the EU Stage V regulations. Engine power was increased by 25% vs. the previous model and now reaches 62.8 hp (46.2 kW). Optimized for tough construction applications, its fully automatic hydrostatic transmission sends power to all four wheels. High torque with the low rpm engine setting gives fast uphill travel performance thanks to stronger engine power.

The operator can rely on Easy Fork kinematic to transport loads with Komatsu pallet forks parallel to the ground without readjusting the fork tines. Operators still benefit from the Z-bar kinematic, with high breakout

force and fast and easy bucket filling, and for an easy handling of the machine.

Thanks to the wide opening engine hood and tiltable cabin, all service points are easy to access. A 6,000-hour cleaning interval typically makes the DPF maintenance-free for 10 years. The newly designed engine with high torque at low rpm level boosts performance and helps to achieve low fuel consumption in every application. All maintenance and service can be performed easily and quickly thanks to the tilting cab. The engine hood opens widely for a quick daily inspection, the electric equipment is well protected behind a maintenance cover, and the easy-to-clean wide core radiator, with an optional reversible fan, is conveniently accessible.

[www.komatsu.eu](http://www.komatsu.eu)

## **Bobcat launches M3-Series compact loader line**

To meet a variety of customer needs and budgets, Bobcat Company has launched the new M3-Series compact loader line. Four new skid-steer and compact track loader models are now available by limited release in North America through select dealers. The four new M3-Series 500 platform size model loaders

forces and faster cycle times to enhance power and overall operator productivity and efficiency. Bobcat engines also feature a robust combustion chamber that can handle more pressure and produces more usable horsepower and torque than other competing loader manufacturers meaning optimal performance for pushing, digging, lifting, and operating a variety of attachments.

The M3-Series durable, patented lift-arm design and a choice of lift paths helps meet the unique needs of each jobsite. The S510 and T550 models feature a radius lift path to provide maximum reach truck bed height. The S590 and T595 models offer a vertical lift path for higher lift capacity and to achieve more reach at full lift height, keeping the load closer to the machine while the loader arms are raised. An innovative new fuel system in M3-Series loaders makes low fuel levels more forgiving. Cold-weather operation is improved and a variety of features, including a self-priming pump and a new fuel pre-filter, make maintenance and service more convenient. Additional standard uptime features include automatic machine shutdown, on-board diagnostics and battery run-down protection to monitor engine, hydraulic and battery functions. M3-Series loaders are designed for delivering better productivity on the worksite and keeping the machines out of the shop.

[www.bobcat.com](http://www.bobcat.com)



include the S510 and S590 skid-steer loaders and the T550 and T595 compact track loaders. The line was developed to specifically support customers who are looking for more practical features with pricing to match, while complementing the R-Series lineup. Building on the established M2-Series loader, the new M3-Series is designed with the Bobcat turbo-charged diesel engine, an innovative new fuel system, simplified configurations and fewer ancillary options combined with new modern decal styling and more.

All models are powered by 2.4-liter Tier 4 Bobcat engines with an innovative new fuel system, offering a range of 55-70 hp (41-94 kW). The engine meets Tier 4 regulations without a diesel particulate filter (DPF), reducing downtime that occurs with DPF regeneration and long-term DPF maintenance costs. The high-efficiency hydraulic pumps are configured precisely for each model's specific operating capacity and matched to cylinder size and loader lift capacity. This provides better breakout



# STARS



## Volvo's electric avenues

The L20 compact wheel loader is part of Volvo Construction Equipment's growing range of electric machines that are providing customers with a cleaner, more silent and more comfortable work environment while also meeting the company's ambition to have at least 35% of its total range of vehicles fully electric by 2030. The L20 Electric is a proven concept based on the larger L25 Electric model. It features a 1.8-ton payload and a parallel-type linkage offering great visibility over the attachment being used, outstanding lifting height,

as well as 100% parallel movements – making it a perfect fit for fork applications too. Expected to deliver up to six hours of active work per charge, the electric machine comes with a choice of battery packs (33 kWh or 40 kWh) while also reducing maintenance by 30%. In addition to the more

peaceful working conditions offered by the machine's near-silent motor, operators enjoy enhanced comfort and productivity via a new automatic park brake with hill-hold functionality, as well as a range of customizable work modes. The machine comes with an integrated on-board charger allowing them to charge from 0 to 100% in under six hours. With an optional fast off-board charger, the L20 Electric will fully charge in under just two hours. For the most accurate picture, Volvo dealers can calculate the expected operating time and optimum charging solution



based on customers' activities. L20 users can operate in noise sensitive areas and out of standard hours, as well as low-carbon projects and indoors, without the need for costly fume extraction systems.

[www.volvce.eu/electric-machines](http://www.volvce.eu/electric-machines)

## ASV expands MAX-Series skid steers

ASV has expanded its MAX-Series™ lineup with the addition of the vertical-lift VS-75 and radial-lift RS-75 skid steers. The MAX-Series line was first introduced with compact track loaders in mid-2020, giving operators a premium experience to match the machines' impressive performance capabilities. Like the tracked machines, the skid steers benefit from a new, next-generation cab available with industry-leading 360-degree visibility, a

roomier operator area, a more comfortable seat, a new high-tech touch-screen display and more.





The RS-75 includes a 2,600-lb (1,179-kg) rated operating capacity and a 5,845-lbf (2.6-kN) breakout force, while the VS-75 features a 5,920-lbf (26.3-kN) breakout force and an

impressive 3,500-lb (1,588-kg) rated operating capacity. Both are equipped with 75-hp (56-kW) engines. In fact, the VS-75's high capacity rivals many larger units, giving operators the ability to have the fuel economy and reduced price of a lower horsepower machine but the performance of some of the largest skid steers out there.

Both models are better able to travel over obstacles without getting hung up thanks to 10.5 in (267 mm) of ground clearance, more than 2 in (51 mm) higher than any machine in their class. In addition, the purpose-built chassis improves performance while climbing hills resulting from a 24-degree departure angle. Operators can work longer days in comfort with the MAX-Series with a number of comfort and usability features available to be added to the basic configuration. Features include an optional fully suspended seat, one-sided lap bar for easy entry and exit, and a roomier cab. Operators also benefit from a cleaner, quieter and more temperature-stable work area with the optional highly-pressurized, all-weather cab. The optional pressurized cab's improved seal helps repel noise, dust and debris and outside temperatures. An updated HVAC system allows for better overall circulation and defrosting capabilities within the cab. The cab also features a number of reliability improvements, including a design that better protects electronics with fully sealed, water-tight wiring harnesses and fuse panels. The machines maximize serviceability with convenient and simple maintenance access. Swing-out door and cooling systems provide access to filters and other daily checkpoints for easy maintenance.

[www.asvi.com](http://www.asvi.com)

### New Holland launches its largest, most powerful CTL to date

New Holland Construction expands its compact track loader offering to include an all-new model, the C362. Offering rugged construction, power and performance, the C362 excels in any location. With a 114-hp (85-kW) engine, a rated operating capacity of 6,200 lb (2,812 kg), and a breakout force of 12,900 lb (57.4 kN), the C362 is ready to tackle any project. The C362's new frame design is built to last with a heavy-duty steel rear door and rear hood. Bucket cylinders are mounted on the front of the boom arms to increase ingress clearance and add even more pounds of bucket breakout force. The patented New Holland Super Boom® vertical lift design optimizes the C362 for lift-and-carry operations. With greater dump reach and height, customers can easily load high-sided truck boxes or hoppers. Full 360-degree visibility comes with the C362's low-profile Super Boom arm and shoulder design, an integrated rear camera, and new LED front work lights. Operators can see even more with the C362's large glass door, lower front-door threshold and see-through area on the cab roof.

The low-profile undercarriage design eases cleanout, reduces noise, and increase durability. It also provides an extended track life and smoother ride due to the steel-embedded tracks rolling on the rubber instead of steel. The in-cab 8-in (203.2-mm) LCD display gives operators a quick look at engine settings and performance information. The EZ EH custom screen settings allow for easy navigation and quick operation adjustments. The display also provides greater visibility to the rear of the loader for an efficient, safer operation.

The C362 is also built with electro-hydraulic controls featuring multiple speed and sensitivity settings, including creep mode and automatic straight-line tracking. Creep mode, a slow-speed option, gives the operator greater control for slow-speed operations such as trenching and cold-planing with speed thresholds of one to 100 increments. Automatic straight-line tracking improves

productivity and precision as it keeps a straight working and traveling path in uneven terrain.

For regular service or maintenance, the C362 allows for easy access to the engine. The rear door and hood provide quick service entry for daily and periodic maintenance. All major service points can be accessed by tilting the cab forward.

[www.newholland.com](http://www.newholland.com)

### Gehl's new RT135 CTL

Gehl is pleased to announce the new RT135 track loader, strengthening its product offering to ten track loaders with the introduction of the 1,350-lb (612-kg) capacity machine. The Gehl RT135 delivers profound power in a compact fashion, at an overall width of 57 in (1,448 mm) and height of 76 in (1,930 mm), and a lift height of up to 110 in (2,794 mm). With an operating weight of only 6,510 lb (2,953 kg), the RT135 can be easily transported, making it an ideal machine for the rental industry, construction sites and weekend warriors. The Gehl RT135 is powered with a 46.6-hp (34.7-kW) Yanmar engine that utilizes automatic regeneration and zero fuel additives, providing clean emissions with little to no effort from the operator. In addition, built on an adapted R135 skid loader chassis for superior weight distribution and grading, the Gehl RT135 is equipped for any jobsite.

Equipped with Level II FOPS, the RT135's cab provides a robust operator station as well as excellent visibility on all sides of the machine, allowing for precise material placement. The IdealTrax™ track tensioning system saves on maintenance and track replacement costs by automatically tensioning the tracks when the engine is on, eliminating the chance of over-tensioning and extending the life of the tracks up to 15%. Track tension is released when the engine is turned off, reducing strain on sprockets and bearings. The system also eliminates the need for manual tensioning of the tracks and daily tension checks.

The Gehl RT135 track loader is compatible with most allied attachments. An optional Power-A-Tach® system





engages and disengages an attachment without the operator having to leave the cab, providing an increase in efficiency and safety. Additional optional features on the RT135 include a back-up camera and a self-leveling hydraulic lift that keeps the attachment level throughout the raise/lift cycle.

[www.gehl.com](http://www.gehl.com)

### New compact wheel loaders from Sany

Sany's new four-model line-up of compact wheel loaders include the powerhouse SW105 and SW115. The SW105's 2,450-lb (5,400-kg) operating weight is powered by a 39.5-hp (53-kW) Yanmar 4TNV98C engine, while the 2,844-lb (6,270-kg) SW115 has a 43.2-hp (58 kW) TD 2.9 L4 turbocharged Deutz engine. For smaller applications, the smaller SW075 and SW085 are equipped with the Stage III Yanmar 4TNV88 engine, their larger sister models are fitted with Stage V-compliant engines. Bucket capacities for the four-model line range from 0.9 to 1.4 yd<sup>3</sup> (0.7 – 1.1 m<sup>3</sup>).

The typical SANY sales advantages such as the use of well-known key components, a very high technical standard and the possibility to get the five-year warranty remains, keeping our promise to deliver high quality and very productive machines at fair prices. For example, the standard configuration includes a hydraulic quick coupler and safety valves. The corresponding preparation for road homologation such as TÜV certification is also available. In addition to the high specification features as standard, the wheel loaders benefit from oscillating rear axles, which are normally found on larger machines to increase stability.

[sanyeurope.com](http://sanyeurope.com)

### New anti-vibration undercarriage for John Deere 336 CTL

Expanding on its wide offerings of optional machine enhancements, John Deere introduces the anti-vibration undercarriage system for the 333G compact track loader.

Designed to reduce machine vibration and increase operator comfort, the anti-vibration undercarriage system was created as a solution to combat operator fatigue and enhance user experience.

The new undercarriage option offers a solution to enhance machine operation, helping operators to remain focused on the job at hand. Key features of the anti-vibration undercarriage system include the following: an isolated undercarriage, bogie rollers, updated grease points, hydrostatic hose protection shield and rubber isolators. By utilizing an anti-vibration suspension at the front and rear of the track frame and absorbing shock through the rubber isolators, the machine provides a smoother ride for the operator. These features also enable the machine to travel at higher speeds while retaining material on the job, and permit the machine to flex up and down, creating a more comfortable operator experience, ultimately helping reduce operator fatigue. Designed with productivity in mind, the new bogie roller system allows for oscillating movement of the rollers, promoting smoother transi-

tions when cresting a hill, improved stability on uneven grounds, and enabling larger debris to pass between the roller and track system. This updated design also features a new oscillating bogie arm, further enhancing operator efficiency. This design includes only four new grease points which are easy to access meaning operators can spend more time being productive. Improving operator experience was a key priority during development of the anti-vibration undercarriage system. With that in mind, additional enhancements were made and a new angled steel shield was added to protect the hydrostatic hoses from exposure to debris. Additionally, rubber isolators were implemented to offer longer track life and allow easier repairs compared to other competitive solutions. The anti-vibration undercarriage system is now available on zig-zag bar tracks on the 333G Compact Track Loader models, and can be purchased in the US and Canada, as well as in various international locations.

[www.johndeere.com](http://www.johndeere.com)







### Wacker Neuson's versatile WL34 wheel loader

The WL34 wheel loader from Wacker Neuson is a multifaceted and maneuverable machine that can move a great deal of material. It combines power, reliable hydraulics and compact dimensions with mature technology and a convincing price-performance ratio. Powered by a 61-hp (45-kW) Deutz TD 2.9 L4 Stage V engine, the WL34 features a .8-yd3 (.62-m3) bucket capacity, a conically tapered load arm offers a first-class view of the transported items, and carefully arranged service accesses in the cabin to minimize maintenance times. A hydrostatic all-wheel drive system, central service and parking brake in the drive train that acts on all four wheels. The operator's

cab includes a fully damped comfort seat with safety belt, weight, back and height adjustment; adjustable steering column; and front and rear work lights.

[wackerneuson.com](http://wackerneuson.com)

### Takeuchi launches new attachment program

The new Takeuchi-US Attachment Program offers a full line of Takeuchi-branded attachments for each of the manufacturer's product lines – compact excavators, compact track loaders, and compact wheel loaders. Takeuchi partnered with several market-leading attachment manufacturers to provide attachments in five categories—land and vegetation management, construction management, agriculture management, snow removal, and brooms.



Altogether, there are nearly 40 different attachment families available, from buckets to forestry mulchers to snow blades, and everything in between. Many attachments come in various models and sizes for the ultimate customized solution for nearly any machine application.

Takeuchi's full-featured attachments offer standard configurations, including bolt-on cutting edges, connect-under-pressure quick couplers, heavy-duty cylinders and optimized controls. Performance matched attachments have flow requirements and operating parameters that are matched to compatible machines for optimal performance. Takeuchi provides optimized hose lengths with connect-under-pressure couplers on hydraulically operated attachments for fast, easy connections.

[takeuchi-us.com/attachments](http://takeuchi-us.com/attachments)

## Volvo Prototype LX03: The Intelligent Future of Construction

This fully autonomous, battery-electric prototype by Volvo Construction Equipment is the first real-world example of a self-learning concept wheel loader with the brains to make decisions, perform tasks, and interact with humans. It is also the first time ever a LEGO® Technic model has been turned into a real machine. While not commercially available, engineers expect that valuable insights from the LX03 will feed into applications for today and tomorrow. Inspired by a concept devised by Volvo CE and LEGO® Technic engineers and designers, the Volvo LX03 is a remarkable milestone breaking new ground in smart construction technology. It represents both the next stage in Volvo CE's exploration into machine intelligence and its determination to decarbonize the construction industry.

What started out as an exciting project between designers and engineers at the two companies, to explore the potential for future construction, evolved over time with the help of a team of smart children into the successful launch of the 42081 LEGO® Technic Concept Wheel Loader ZEUX.



The prototype LX03 has been built by a dedicated team of engineers, programmers and workshop technicians from Volvo CE sites in Eskilstuna, Sweden and Konz, Germany, in collaboration with the design team in Gothenburg, Sweden. It is a 5-ton wheel loader that has been developed as a modular concept, with the capability of being made larger or smaller with just one or two changes to the manufacturing process. It also shares its driveline with the L25 Electric, making

it a zero emission, low-noise machine with a run-time of up to eight hours, depending on its application.

The LX03 is designed to be a smart and safe worker, equipped with a brain that has the capacity to adapt to different scenarios, make decisions in real-time and most importantly collaborate with humans. It can be programmed by customers to complete heavy, repetitive, or dangerous tasks, reducing the need for a human on site.



# Looking for Comprehensive Market Information?

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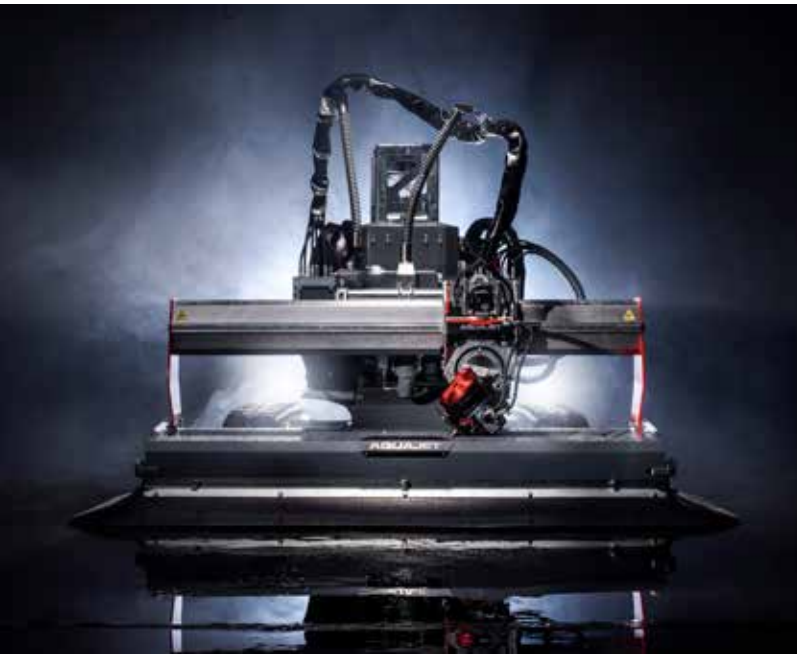


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# Releases From Aquajet



Aquajet introduced a number of new developments at the recent World of Concrete show in Las Vegas, including a completely new robot—the Aqua Cutter 750V. The new machine features Aquajet's patented Infinity oscillation that moves the water jet in a figure of eight (or infinity) pattern, removing more concrete in a single pass while reducing shadowing, eliminating the risk of pipe holes and providing an ideal bonding surface. The 750V also features the next generation Evolution 3.0 control system that includes new functions, including the ability to automatically calculate optimal settings for lance motion for greater precision and efficiency.

Like all Aqua Cutter Robots, the 750V cleans and descales rebar without causing micro fracturing. It also maintains horizontal, vertical and overhead reach, making it suitable for a wide variety of concrete removal tasks, such as renovation and bridge and road repair.

The constant lance motion in an infinity pattern, rather than the standard wave pattern that has natural fluctuations in speed, enables the 750V to remove more material in a single pass, significantly reducing shadowing and making it unnecessary to follow up with hand lancing. The consistent motion also increases the digging effect and virtually eliminates pipe holes, resulting in a superior bonding surface and increased productivity.

Another benefit is the constant, low noise that is less disruptive in urban areas and other noise sensitive environments.

The 750V also shares several similarities with Aquajet's innovative Ergo System, as the Infinity power head has Ergo style spring tensioned rollers and quick connection to the

roller beam. It also uses absolute sensors, which means it automatically adjusts at the touch of a button. With a larger roller width and a new triangulated base frame for improved stability, the infinity power head contributes to precision while improving the result.

As part of its design, the 750V also includes an upgraded version of the Evolution Control System, which provides the ability to cut shapes and remove concrete at different depths in the same pass. The new version ratchets up its performance even more with an oscillation menu that automatically calculates optimal settings for the operator. This not only maximizes production, but also prevents miscalculations from manual adjustments. It also uses a color-based visual status light to show the state of the machine which allows operators to easily see when the machine is working correctly, when it needs attention and when automatic functions or the engine have stopped.

Another key feature is remote start and stop of the diesel engine through radio remote control, making it possible for the operator to stop or start the robot from a safe distance thereby eliminating the need for the machine to run all day. In addition, the machine will automatically shut down if there's no activity for a certain amount of time thus saving battery power.

The 750V comes with the performance focused Aquajet precision drive. This provides highly accurate hydraulic movements, eliminating the inconsistencies that compromise the result. In automatic mode, the robot's lance is highly controlled and always keeps the water jet in the ideal

position, which is key to achieving a perfect hydrodemolition result.

With an all-new tracked system, the 750V is said to operate as smoothly as driving a car. This motion increases service life by eliminating bounces that can compromise components and improves the accuracy of nozzle distance to surface, further improving precision. The 750V is compatible with Aquajet's line of accessories, as well as the Ecosilence high-pressure pump that supplies the water to run the machine and provides a cost-effective option for transport and storage. The purpose-built insulated container includes the pump, large capacity diesel engine and control system, with a convenient storage area for the robot and accessories.

## Aquajet EcoClear

Aquajet also showed the EcoClear® water treatment system which works with Aquajet's full line of hydrodemolition robots to treat wastewater generated by neutralizing pH, greatly reducing its turbidity. This means that it can be safely released back into the environment or recirculated in the equipment. The EcoClear system enables the hydrodemolition contractor to treat wastewater in real time and maintain an environmentally sound jobsite.

EcoClear moves as much as 1,060 ft<sup>3</sup> (20m<sup>3</sup>) per hour through a series of treatment chambers that neutralizes alkaline water to a pH of six to nine and reduces turbidity to just 20-25mg particles/l. The entire process can be monitored and controlled online with the Reco control system. Optical turbidity sensors and pH probes continuously monitor and record the water quality to ensure only clean water is discharged. If the water does not meet set limits, the feed pump automatically shuts down to prevent dirty water from escaping. The water then starts to recirculate until it meets the preset values of pH and turbidity.



## Ecosilence

Aquajet also highlighted the Ecosilence 3.0 that reduces noise and allows for a more compact jobsite, while enhancing environmental stewardship and lowering overall operating costs. The Ecosilence features integrated auto start/stop technology that improves fuel consumption, which saves as much as 6 gallons (25 liters) per/day of fuel for a smaller carbon footprint. The Ecosilence is compact, with the entire self-contained system fitting in a standard shipping container. It also produces less noise while in operation, making it ideal for use in urban areas with limited space and strict noise restrictions. The unit also has dramatically improved pumping pressure, operating as high as 43,500 psi (3,000 bar) and provides ample power for hydrodemolition applications such as concrete renovation and road and bridge repair.





The Ecosilence 3.0 features an environmentally friendly, low emission engine and high-pressure pump to power Aquajet's range of Aqua Cutter hydrodemolition robots. The skid mounted unit employs auto start/stop technology, which temporarily shuts down the engine when not in operation to reduce idling time by up to 50%. The engine automatically starts up when operation resumes. In this way, the Ecosilence saves money and significantly reduces emissions. The integrated engine and high-pressure pump unit pairs with a liquid to air heat exchanger to provide quiet, efficient operation for all hydrodemolition applications.

#### Ergo Line

Aquajet Ergo system incorporates the controller unit, which powers and controls the hydraulics, the Ergo Power Head to manipulate the high-pressure lance, and either the spin or climber—unique systems used to support and maneuver the power head, based on project needs. The climber attaches to any standard scaffolding pipes and robotically moves along it to deliver powerful hydrodemolition forces for vertical concrete removal and repair, such as high-rise construction. The robot can handle higher volumes of water, as much as four times greater reaction force than a human operator with a hand lance. This means the machine can remove concrete faster and easier.

[www.aquajet.com](http://www.aquajet.com)



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## A

**At a large, high-profile demolition project in Lille, France, a demolition contractor uses equipment from Trevi Benne and Volvo to great success.**

Last May, an ambitious project for the demolition and reconstruction of the executive buildings of the General Council of the Department of the North (FORUM) in Rue Gustave-Delory in Lille, France began. By the end of summer 2023, the new complex will house departmental services, with annexed offices and apartments as well as several green areas and parking lots. The demolition phase involved the knocking down of two buildings dating back to the 70s with a maximum height of 180 ft (55m). At the beginning the priority was for cleaning and reclamation and the removal of asbestos. Subsequently, about 1,350 tons of waste and 200 tons of metal of various kinds were removed and sorted, with the percentage of recovery within the site itself being close to 95%. The demolition stage was the most delicate requiring the operator to show the utmost attention in dismantling and removing rubble of the upper floors to the ground in a controlled way in order to safeguard the hotel structure next to it, with special spray guns used for dust suppression.

### Machinery on site

On site was a Volvo EC750 EHR 100t demolition excavator fitted with a 118-ft (36m) high-reach boom. Alongside, a 60t Volvo EC 480 excavator, also in a demolition configuration, was equipped with a 92-ft (28m) high-reach demolition boom. The third machine at the site was a Cat 325 excavator fitted with a demolition hammer and sorting grapple. The attachments, from Italian manufacturer Trevi Benne, included the primary HC 40 crusher fitted to the Volvo EC 750, and a 9,921-lb (4,500kg) MK 38P universal processor with booster on the Volvo EC 480. The machine was also equipped with the CB Combi Kit, the FR Pulveriser Kit, and the CS Shear Kit, plus HDV rock buckets.



The HC Series of hydraulic crushers are designed for the most delicate and precise primary crushing phases, particularly for demolition of reinforced concrete structures and removal of materials at height. Trevi Benne claims it to be the fastest, most precise equipment, powerful and compact such tool available today. The HC Series is available in 16 models, ranging from the small 551-lb (250kg) HC 02 to the 27.5t HC 250. It features the new HD interchangeable teeth system to increase material breaking efficiency, reversible blades, speed multiplier valve, and a protected and reinforced continuous hydraulic rotation unit with double-motor option.

The MK Series Multi Kit pulverizer is multifunctional equipment consisting of a universal body to which various demolition kits are linked thanks to an innovative

hydraulic release system. This eliminates the need to remove structural pins manually. This IZI-Lock® system allows the changing of kit on site with a single operator in less than 5 minutes.

A version equipped with the impact booster valve, which is fitted to the entire premium demolition line, offers the user a greater cue in the demolition phase when the material to be crushed offers greater resistance. It also enables the multiplication of excavator working pressure, reaching peaks of 10,878 psi (750bar). The booster technology therefore allows reduction of the opening/closing cycle of the jaws, resulting in time savings and substantially increased productivity.

The operator of the Volvo EC 750 excavator says the 8,819-lb (4,000kg) HC 40 crusher proved to be a



# ectFit







perfect choice when fitted to the long boom. It was said to be provide solid performance, reliable, quick in the open/close cycle of the jaws, and extremely powerful in closing. This model proved to be the ideal equipment for this type of work as the concrete was as much as 28 in (700mm) thick in some sections.

### Contractor, distributor and manufacturer – a perfect team

The operator of the EC750 works for the Renard Company. Owned by Olivier Renard, the 120-person business specializes in demolition, reclamation, and decommissioning. Trevi Benne worked with long-time French distributor Cimme Sodimat to supply equipment to the FORUM project, and similar projects around Lille. Francois Defrenne, general manager of the Cimme Group, says the company began as spare parts and earthmoving machinery dealers, but now 70% of turnover comes from supplying Volvo equipment. The company philosophy is to look for the best suppliers and collaborators, such as Volvo and premium attachments from Trevi Benne.

“For more than twenty years we have been working with Trevi Benne for the supply of excavator and loader buckets and demolition equipment,” Defrenne says. “At the beginning of the relationship, the request was addressed only to the buckets. Trevi offered us a wide choice of products and timely deliveries, and always ready with both standard equipment and products tailored to our specifications. The flexibility and availability of Trevi Benne is an aspect that we have always appreciated and has made the difference over time.

The Cimme Group also now carries Trevi Benne demolition and recycling equipment, which has proved equally impressive.

“We have always believed in the choice of individual and exclusive suppliers in order to establish a special relationship that has proved to be successful over time,” Defrenne adds.

[www.trevibenne.com](http://www.trevibenne.com)



Paolo Pellizzari, Trevi Benne's area manager (left) and Trevi Benne marketing manager Christian Tadiotto.





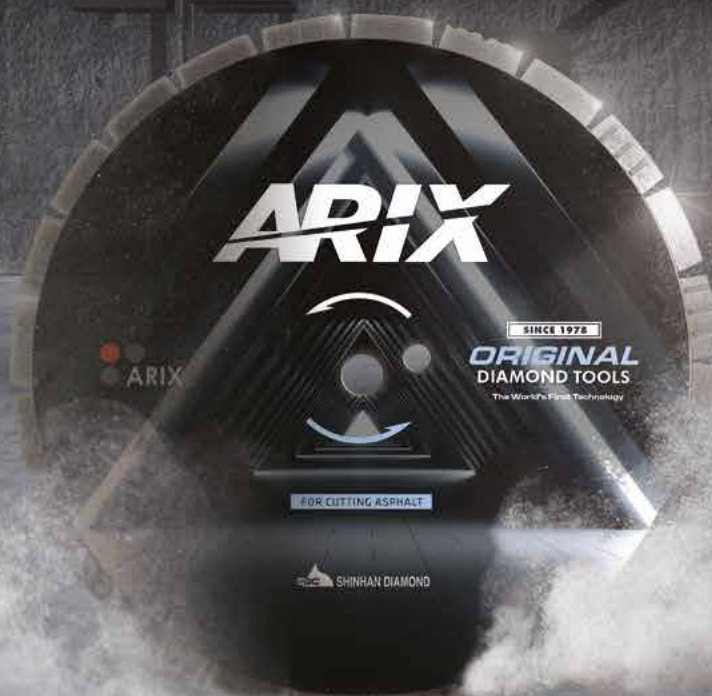
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# A RE-TIPPING POINT



As measures against spreading the coronavirus are reduced or removed, there is a hope that a tipping point is on the horizon and the two year Covid-19 nightmare will soon be over. Once this becomes a reality, players in the concrete sawing and drilling industry will have to “re-tip” their operations and get themselves back on track. In anticipation of that moment, some have started to do just that. PDA’s Andrei Bushmarin looks at the latest innovations in core drilling.

## Husqvarna extends its i-series

Husqvarna’s new DM 540i drill motor is designed for .6- to 3-in (15mm-75mm) drilling in handheld mode and up to 4-in (100mm) drilling on a drill stand. The DM 540i allows for easier handling and higher productivity while reducing physical strain on the user. The specially developed thin-walled drill bits ensure better utilisation of the machine’s power and are available for drilling holes up to 13.7 in (350mm) deep. The DM 540i can be used both outdoors and indoors for wet and dry drilling. The machine’s ergonomic design and light weight make it a good choice for work in confined spaces or in tight corners or passages, and, with fewer parts to service, operating costs and downtime are lower. The DM 540i is part of Husqvarna’s i-series “battery eco system,” which means that the battery can be used on multiple Husqvarna products. Built-in connectivity also means that location, runtime and service intervals can be easily monitored and wireless updates received.”

[www.husqvarnacp.com](http://www.husqvarnacp.com)

## Lissmac features ‘Drill Jet’ series

The Drill Jet series from Lissmac currently includes four drill motors, five stand options, a special system for pipe drilling and a comprehensive range of accessories. The two smaller drill motors - the CDM 20 P and CDM 20 S - boast a rated power of 2 kW. Fitted with an ergonomic pistol or spade grip, these compact models are designed for the handheld drilling of holes of up to 7.8 in (200mm) in diameter in masonry and 6 in (150mm) in concrete. The rig mounted CDM 33 W with a power rate of 3,300 watts is designed for up to 13.7 in (350mm) wet coring jobs. At the top of the Drill Jet range is the powerful 6,300W CDM 63 W model for up to 19.6-in (500mm) tasks.

All models feature Lissmac’s Multi-Safe-Tronic safety system, which protects the drive from electronic and mechanical overload and safeguards the motor from overheating. The LED signals on both sides provide additional safety by indicating the current drilling load. Visual service indicators signal the maintenance requirements for such vital components as shaft sealing rings and carbon brushes. The modular construction of the Drill Jet rigs ensures operational flexibility on site.

Lissmac’s system for pipe drilling consists of the CDM 23 WP motor and the specially designed CDR 350 stand, and a flanged three-speed gearbox. The emergency stop button centrally located on the control display shuts down the machine immediately in case of a danger. The CDR 350 stand can be easily mounted on to exposed sewer pipes by using a tensioning set or ratchet. If a sewer pipe is not completely exposed, the stand can be





fixed to the ground with spikes. The hand-crank cross is positioned to enable effortless drilling in both vertical and horizontal directions. The galvanised steel posts and Teflon bushings of the support guide ensure precision even at high loads. Another useful feature for everyday work on site is a crane hook, which facilitates quick lifting and lowering of the entire drilling system.

[www.lissmac.com](http://www.lissmac.com)

### Tyrolit expands dry range

Tyrolit has expanded its range of drill motors for dry applications with the addition of the DME17 model. Designed for up to 7.8-in (200mm jobs), the machine has a power rate of 2.0kW and the switchable soft impact function ensures excellent performance when drilling in reinforced concrete and other hard materials. The DME17 can be used in either handheld or drillmode. The compact design, low weight, and an integrated dust extraction system allow for comfortable operation. The new model is available in three speed configurations (standard, slow and quick) and suitable for a wide range of coring applications.

[www.tyrolit.com](http://www.tyrolit.com)



base material search, electric start aid, automatic water on/off and break through detection. Both models are equipped with digital displays for the user to control and operate the autofeed. The system recognises the start and completion of every hole by displaying actual drilling depth and collecting total depth in the user statistics. The DD 150-U and DD 250-CA motor are connected to autofeed units DD AF-CA L and DD AF-CA H and the water management system DD-WMS 100 via Bluetooth into a single network. The user can monitor drilling progress while carrying out other tasks.

[www.hilti.com](http://www.hilti.com)

### Handheld coring solutions from Hycon

Hycon, a Danish specialist in handheld hydraulic cutting, drilling, and demolition tools, has two core drills in its range. The HCD 25-100 model is a 1,500rpm drill for up to 4-in (100mm) coring jobs. The machine is suitable for a variety of applications ranging from vibration-free drilling of anchoring holes in reinforced concrete to installation holes for water pipes, cables and fibre optic ducts. The HCD 50-200 is a 500rpm high torque drill for up to 13.8-in (350mm) applications. This model is recommended for drilling holes for road cables, ventilation holes, and sewer lines.

[www.hycon.dk](http://www.hycon.dk)

### Baier Tools shines at WOC 2022

Based in Stuttgart, Germany, Baier Tools has been manufacturing high quality power tools for more than eight decades. In the recent years, its focus has been on dry drilling and cutting systems, which Baier believes will be dominant in the future. The highlight of the German manufacturer's booth at this year's World of Concrete featured a handheld cordless dry coring motor with a cordless backpack vacuum cleaner. Baier also presented the BDB825, an all-rounder for dry drilling applications with the OSHA-approved vacuum cleaner BSS606, ensuring 99.8% dust-free operation.

[www.baier-tools.com](http://www.baier-tools.com)

### Hilti creates a "drilling eco system"

Hilti has a comprehensive product portfolio to offer to both professional concrete drillers and specialists from other trades. The range's true standouts are the compact, multifunctional DD 150-U and the powerful heavy duty DD 250-CA drill motors, both available as of May 2021. The machines feature Hilti's popular Cut-Assist functions:







# A BucketLOAD of Value

Crusher and screening buckets are the kind of tools that quite literally turn waste into profit. Powerful and versatile attachments, they can be fitted on a carrier of any kind - excavator, loader, or even telehandler - to process a wide variety of materials from construction and demolition waste to top-soil, turf, roots, and compost. PDA's Andrei Bushmarin presents the latest news from this fast-developing sector.

## Let's crush and screen in the Rock.Zone!

A rebranding from Rkla to Rock.Zone hasn't stopped the company from upgrading its portfolio of crushing and screening attachments. The Rockcrusher crusher bucket range currently includes four models that fit 12t to 35t carriers. Thanks to Quattro Movement crushing technology, the buckets produce a consistent cube-shaped end-product, which is immediately ready for re-use as aggregate. Other benefits include reduced wear on the jaw plates and the ability to crush round shaped materials such as river rocks and pebbles. The reverse function allows jammed material to be ejected at the flick of a switch. New options include cover protection, a set of hand tools, bucket nose extension and longer hoses—8 ft (2.5m) instead of the regular 6 ft (2m).



The five-model Rockscreener series of screening buckets serve 9t to 39t machines. The Rockscreeners are said to have major advantages over competition—the XXL hopper volume allows large quantities to be processed in one step, the XXL drum has a honeycomb structure for improved uniform screening, and a maintenance free extra-large gearbox.

**rock.zone**

## No job is too difficult for Simex screeners

Simex has upgraded its VSE screening buckets, available in four models for 8t to 45t excavators, with a new FIT screening tool system. FIT is composed of five independent parts designed to easily interlock with each other. They

are easily replaceable without the need for removing the shafts, which leads to reduction in maintenance costs of up to 75%, as it is now possible to replace just one single disc or blade. The system allows multiple configurations depending on the material being screened. Simex provides users with three basic set ups, but more options are pos-







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2020 Attendee **Britton Lawson,**  
**Veit and Company, Inc.**





sible thanks to fully interchangeable screening elements.

A few examples of the new system in action include a VSE 30 screening bucket being used in Italy for the separation and recovery of materials following the demolition of a private home. The bucket separated the 1.5- to 4-in (40- to 100mm) material from the finer particulates while sifting away debris and soil. The VSE 30 was equipped with the FIT disaggregation tool, featuring a central blade, which also does some crushing of the concrete during the screening. In the UK, an operator cleaned tons of topsoil from stones and gravel for landscaping purposes using a VSE 30 bucket. The final product was a fine size aggregate ready to be transported and reused. Coarse aggregates larger than 2.1 in (55mm) were used directly onsite.

At another Italian jobsite, a VSE 30 carried out a land remediation project around a construction site by

selecting and separating soil from demolition waste. Sifting soil from stones, roots and debris made it possible to quickly restore the green area while reusing 100% of the material present onsite. Despite high soil humidity caused by intense rains in the days prior to the job, the production rate was still impressive, reaching up to 883 ft<sup>3</sup> (25m<sup>3</sup>) per hour.

[www.simex.it](http://www.simex.it)

### MB attachments and telehandlers – a perfect fit

Purpose-built for material handling, telehandlers are often a machine of choice for jobs in tight urban areas. Their telescopic boom can be used as an access platform or a mini crane to lift and move around various materials. The four-model MB-L series of crusher buckets from MB



Crusher effectively transforms a telehandler into a jaw crusher. Telehandlers can also play the role of a screener when equipped with a new MB-HDS shaft screening bucket.

The biggest advantage of the MB-HDS attachment is that the rotating shafts can be changed onsite. Another winning combination is a telehandler equipped with a MB-LS rotary bucket for fast and efficient screening.

[www.mbcrusher.com](http://www.mbcrusher.com)



# Conjet North America Hosts Hydrodemolition Educational Week



Conjet, Inc., hosted a three-day event in late February at its Charlotte, NC, headquarters to provide customer training and promote market awareness of the benefits of hydrodemolition. The company's North American team welcomed several Conjet experts from Sweden for the event, including Conny Tångning, Global Service Manager; Miguel Paquez, Global Product Manager, Parts and Accessories; and Rebecca Nilsson, Global Marketing Manager.

The week started with a two-day "ConjetU" training program, with 14 operators from five Conjet customers participating. They received both classroom and hands-on equipment training covering the fundamentals of hydrodemolition, the automated concrete removal (ACR) operating system, safety, maintenance, and troubleshooting. In addition, the ConjetU "students" were able to share their combined knowledge, experience, and best practices across a range of different projects and jobsite conditions. Each attendee received

a certificate of completion establishing that they have passed the ConjetU training program and are certified to operate Conjet equipment.

The feedback from the ConjetU program was overwhelmingly positive, with one participant proclaiming that, "Conjet has a great future. They care about educating their customers."

The event also included a public "Demo Day" to promote the application and benefits of hydrodemolition. more 40 people attended, including infrastructure managers, industry suppliers, Conjet customers, and other contractors interested in learning how to utilize hydrodemolition on their upcoming projects.

During the morning session, Conjet provided educational sessions describing the hydrodemolition process, the company's product line and the key factors to consider when planning a bridge project. After breaking for lunch, attendees were given a front row seat to a live demonstration of



hydrodemolition removal on a concrete slab at the Conjet facility. The demolition was performed with the Conjet 557 MPA robot, the most versatile hydrodemolition robot on the market. Following the live demonstration, attendees were provided with refreshments and additional time to network, engage in technical discussions regarding Conjet's ACR robots and potential jobsite applications.

Andrew Johnson, Pavement Design Engineer for the Southeast Cement Promotion Association, said that the Demo Day, "increased my understanding of the power of hydrodemolition and its potential applications for maintaining concrete transportation infrastructure. After seeing the live demonstration, I came away very impressed with the speed and quality of the demolition." Johnson was also able to brainstorm with Conjet's customers regarding some potential new applications for using hydrodemolition to repair cement highways.

"I hope to attend the next event and plan to invite my colleagues to join me," Johnson



said. Stephen Sistrunk, CEO of Conjet, Inc., was pleased with how the entire three-day event unfolded.

"By providing a live demonstration to the audience of infrastructure managers, our experienced customers and other contractors seeking to improve the efficiency of concrete removal, we facilitated a unique educational and networking opportunity that should serve to benefit our customers and grow overall demand for hydrodemolition services in the North American market."

Conjet plans to host more hydrodemolition Demo Days in the future, starting with another event scheduled for this summer.

[www.conjet.com](http://www.conjet.com)





# Quick



Efficiency, safety and environment are all generally becoming more and more important on demolition and recycling worksites as using the right tool for the job is extremely important today. Fully automatic quick coupling systems have been the solution for the operators for years now, with new systems and upgrades being released continuously. Here's the latest from the products' manufacturers.



# Takes

## Smart Attach from Kramer

Kramer's new, patented and fully hydraulic quick hitch system for wheel loaders, Smart Attach, aims to ensure greater productivity, efficiency and safety. The attachment is locked and hydraulically coupled, with automatic pressure release by a simple touch of a button with a secure two hand operation. With the coupling unit's integrated locking display, the operator can always see that the attachment is attached to the machine successfully and securely. For all machines already fitted with the new quick-change plate, the display also features a corresponding illuminated indicator.

What makes the new and patented system so special is its total flexibility. Attachments without the hydraulic function, or with conventional hydraulic coupling systems can still be used. Customers also have the option of retrofitting older attachments or using new attachments that are customized ex-works to the Smart Attach system with the tried and trusted quick-change plate.

This flexible solution is unique on the market. The patented system with floating coupling storage also ensures that there is no wear on the quick coupler. The performance characteristics of machines used in combination with the new Smart Attach system remain at the highest level. Consequently, not only does Kramer ensure that there is no need for constant interruption to the scheduled work process, the company also scores points with operators who are able to make

quick and safe use of the appropriate attachment for the relevant application.

Kramer also provides the EC declaration of conformity for the entire system, for both machines and attachments. Initially, the system will be offered as an option in the large 5-series as well as for some machines in Kramer's premium 8-series range. Along with attachments already factory-fitted for these machines, corresponding retrofit kits will also be provided to enable existing attachments to be fitted with the system.

[www.kramer.de](http://www.kramer.de)







### Liebherr Likufix for wheel loaders

Liebherr is increasing the availability of its fully automatic Likufix quick change system for additional wheel loader models. It is now available for the two compact loaders L 506 and L 508, for the two stereo loaders L 507 and L 509 as well as for the XPower® large wheel loaders up to the L 580. As before, Likufix is still available for the medium sized Liebherr wheel loaders L 526, L 538 and L 546. Smaller Liebherr wheel loaders from the L 506 Compact to the L 509 Stereo are known as versatile all-rounders. With Likufix the flexibility increases even further. The machine operator can switch, for example, between a hydraulic 4 in 1 folding shovel, a forklift or a sweeper within seconds at the push of a button. The hydraulic lines are connected automatically and reliably with Likufix which means no valuable time is lost.

Working with hydraulic tools such as high dump buckets, buckets with hold-down devices, log grapplers, or separator buckets is typical for larger Liebherr wheel loaders. This is why Liebherr also offers its fully automatic quick-change system for larger wheel loader models. The Likufix quick change system is prepared for tough requirements. The hydraulic coupling is supported by springs. The forces that act on the quick coupler are therefore not transferred to the coupling system. Even with long periods of use, the connections between the hydraulic circuits remain absolutely tight. To make maintenance easier, all moving parts are easily accessible. If necessary, customers can easily carry out cleaning and simple maintenance activities such as changing a seal themselves.

[www.liebherr.com](http://www.liebherr.com)

### Connect, the integrated quick coupler from Mecalac

Mecalac states that it was the first manufacturer to equip its machines with a hydraulic quick coupler as a standard. Its integrated Connect quick coupler was recognized at the Intermat Innovation Awards, when it was launched in 2015 for being light,

reversible, easy to use, and completely safe. There is no need for an intermediate and heavy part to be added in between the tool and stick for the connection, and therefore no extra weight. This compactness also further reduces the distance between the end of the stick and the tools, thus further preserving forces at work.

The Connect hydraulic quick coupler is a combination of a patented hanging system—a hook device that prevents the tool from falling both when it is unlocked and when working. The hydraulic coupler itself is made of just a cylinder that locks and releases the tools. The cylinder also compensates the play due to the wear of the tool over time. Mechanical tools are switched very easily directly from the safety of the cab thanks to this ultra-intuitive device. The Connect quick coupler is also reversible and lets users work in both directions, which makes operation more efficient.

[www.mecalac.com](http://www.mecalac.com)

### The OilQuick solution with new plant in the US

OilQuick claims to be the original developer and first commercial manufacturer in the world when it comes to fully automatic quick couplers. According to the company, OilQuick is also the world's best-selling manufacturer of hydraulic quick coupler system with more 40,000 systems sold worldwide. OilQuick is in a very expansive phase right now, expanding both production plant and office facilities in Hudiksvall. The company is continuously hiring new staff and looking for ways to grow as fast as it can. OilQuick is also growing in Europe and this January also started a production plant in the US under the new name OilQuick Americas.

The OilQuick safety features help the operator to avoid dropped buckets and other attachments. The OilQuick product series contains quick couplers for excavators, material handlers, cranes, loading machines, and forklift trucks. All systems come with



a wide range of connections to suit specific needs and can distribute hydraulic oil, grease, water and electricity. Other advantages are fast change of hydraulic, electric and mechanical attachments from inside the cab to ensure the right attachment for the job. Other benefits include fewer machines on the site and increased productivity, reduced transport costs, minimal oil spills, protected hose routing, and less dirt in the cab.

The OilQuick LockSupport (OQLS) is an advanced user-friendly driver support for safe and secure attachment switching on excavators. OQLS is available for all nine sizes of OilQuick fully automatic quick couplers and all tiltrotators. Nowadays modern excavators are equipped with hydraulic quick couplers and use a number of buckets and attachments, which in many cases are switched several times each hour. There is always an element of risk when switching buckets and attachments. OQLS minimizes all these problems and gives the operator safe and secure support for the right decisions when switching buckets and attachments.

[www.oilquick.com](http://www.oilquick.com)

### Next-generation Rototilt QuickChange

Technology development in the construction industry continues, with efficiency and ergonomics increasingly going hand in hand. A new example being the new generation of fully automatic Rototilt quick coupler systems that introduces new innovative benefits for machine couplers, tiltrotators and tools. One of Rototilt's goals has been to develop a system able to handle the high flow tools available on the market. Its own tests and measurements also show that this goal has been achieved by a wide margin. The test operators who have tried Rototilt QuickChange in advance of release, and customers who are now investing in the new technology, have said to welcome the system. Users can quickly set the tiltrotator and mount tools directly on the system's machine coupler, getting extra power when, for example, the operator switches from a tooth bucket or ripper. Rototilt QuickChange is based on the open standard for fully automatic quick couplers for excavators, Open-S. It is a further development of the symmetrical quick coupler standard for excavators, the S standard, which gives machine operators and contractors freedom of choice when it comes to combining tiltrotators







with tools from different manufacturers. Open-S is owned and administered by an independent organization, the Open-S Alliance, which in turn is led by a council of engineers from a growing number of member companies.

[www.rototilt.com](http://www.rototilt.com)

### Steelwrist adds SQ90 to the range of fully automatic quick couplers

The global demand for fully automatic coupler systems continues to grow in both the demolition and construction industry. During 2021, Steelwrist introduced the SQ90—so far, the biggest model in Auto Connection range of quick couplers. The SQ90 is targeted toward excavators up to 70t in the demolition industry. As well as all other Steelwrist SQ products, the SQ90 follows the global Open-S industry standard for fully automatic couplers for excavators. The standard makes it easier for machine operators and contractors to choose quick couplers, tiltrotators and work tools from different manufacturers and be confident that they function together.

Steelwrist's Front Pin Lock is a mechanical lock of the front shaft which significantly limits the risk of an unintended drop of work tools. With Steelwrist's entrance into the demolition segment, the patented Front Pin Lock technology has been upgraded to a second generation in order to support the heavy demolition work tools. Furthermore, all SQ couplers come with QPlus technology which enables higher hydraulic flows with less pressure drops than many other systems on the market.

Other news from Steelwrist is that Steelwrist and Volvo CE are continuing to develop the partnership that started more than a decade ago when Steelwrist became the preferred supplier of true factory mounted tiltrotators and quick couplers fitted to Volvo excavators. As the demand for fully automatic quick couplers on excavators continues to grow rapidly, Volvo CE is now expanding the offering with Steelwrist SQ Auto Connect quick couplers directly from the factory for both crawler and wheeled excavators between 13t and 35t. The launch also includes work tool adapters in matching sizes. With the fully automatic SQ quick couplers operators can efficiently and easily change between tiltrotator, hydraulic powered work tools and mechanical work

tools, from the comfort of the cab.

Steelwrist has also announced that it has signed a cooperation agreement with Demarec for SQ fully automatic quick coupler systems for Demarec products and SQ quick couplers.

Demarec is one of the major manufacturers of hydraulic attachments for the demolition and recycling industry. With more than 25 years of experience in the sector, Demarec has been successful in answering market demand with innovative technology and expertise. In addition, Sandvik and Steelwrist have entered into a cooperation agreement for fully automatic work tool adaptors for Rammer hydraulic hammers. As the global demand for fully automatic coupler systems is rapidly increasing, Sandvik started offering Steelwrist SQ-type adaptor plates directly from the factory during the third quarter of 2021. The deliveries from Sandvik will be compliant with the global Open-S standard.

[www.steelwrist.com](http://www.steelwrist.com)



### SMP Parts new member of the Open-S collaboration

The Open-S Alliance works towards the global interchangeability of hydraulic work tools for excavators, and is a manufacturer independent organization. Membership is available as either full, associate or supporting level depending on if Open-S products are developed, produced in house or sourced. The alliance was initiated by Steelwrist and Rototilt. In November, 2021 SMP Parts was the latest company to join the Open-S Alliance and the third manufacturer of tiltrotators and quick couplers to become a full member. SMP Parts is a manufacturer of tiltrotators and quick couplers with complete mounting systems for excavators. The company operates in Sweden, Norway, Finland, Denmark, Germany, UK, Spain, US, and the Benelux countries, with a number of dealers in each country. All development and manufacturing are carried out at the main headquarters and factory in Ilsbo, Sweden.

[www.opens.org](http://www.opens.org)





# Yanmar Honors Top 2021 Dealers



Yanmar Compact Equipment recognized Vermeer Midwest as its 2021 Multi-Location Dealer of the Year, and Meridian Utility Equipment Sales as the 2021 Single-Location Dealer of the Year.

"Vermeer Midwest and Meridian Utility took it to a new level this year. Their dedication to representing the Yanmar CE brand and sharing its value with their customers really sets them apart," says Jeff Pate, director of sales for the Yanmar CE brand. "We're thrilled to showcase these valued partners and recognize our appreciation for their performance as Yanmar CE dealers."

Vermeer Midwest, Yanmar CE's 2021 Multi-Location Dealer of the Year, has shown strong loyalty to the Yanmar CE brand. They have done much to share the benefits of Yanmar CE equipment and have maintained solid customer relationships despite challenging market conditions. Yanmar CE is grateful for the more than 15 years they've represented the brand.



Meridian Utility Equipment Sales, Yanmar CE's single-location dealer of the year, has been a Yanmar CE partner for more than 12 years and has built a significant customer base. They work tirelessly to share ways that

Yanmar CE equipment can boost profits and productivity. The dealer's commitment as a partner is evident in their recent years' growth with Yanmar CE.

[www.yanmar.com](http://www.yanmar.com)

## AUSA Continues US Consolidation With 2022 World of Concrete Display

Compact equipment builder AUSA had a notable presence at this year's World of Concrete, displaying some of its outstanding dumpers and rough terrain forklifts, as well as its AUSAnow fleet manager.

Ignasi Moner, CEO of AUSA US Corp., noted that the company's fifth showing at World of Concrete "highlights AUSA's strong strategy in the US market, where we are continuing to grow and increase our market share thanks to the extremely hard work that we have been doing in recent years."

AUSA displayed five of its compact all-terrain industrial vehicle models in its exhibition space:

In the terms of dumpers, AUSA exhibited the D601APG with a 13,200-lb (5,987kg) payload and a swing skip; the D350AHG with a 7,700-lb (3,493kg) payload and a swing skip; and the D150AHG, a compact dumper with a 3,300-lb (1,497kg) payload that is suitable for small spaces.

As for rough terrain forklifts, AUSA displayed the C501H, the largest in AUSA's range, with a 11,000-lb (4,990kg) payload and a maximum lift of 17.88 ft (5.45m), equipped with major technological advances that give it the very best all-terrain traction, providing excellent efficiency and a great return on investment. Additionally, the C150H was also displayed, the brand's smallest model with a 3,000-lb (1,361kg) payload and a 13.12-ft (4m) reach.

Also on display was AUSAnow, a new software package that allows real-time information to be sent about maintenance requirements, technical problems and performance issues, and any unexpected movement of machines. AUSAnow ensures that vehicle owners can get the most out of it and reduce downtime by anticipating any requirements.

[www.ausa.com](http://www.ausa.com)





[www.demcon.se](http://www.demcon.se)

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